

SPHERICAL PHOSPHOR AND SYNTHETIC METHOD THEREOF, AND PICTURE TUBE USING SPHERICAL PHOSPHOR AND ITS PRODUCTION

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Inventor(s): MASUDA MUTSUO;; HARUKI SHIGERO
Applicant(s): MATSUSHITA ELECTRON CORP
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Abstract

PROBLEM TO BE SOLVED: To provide a phosphor having high light emitting efficiency, to improve the light emitting intensity of a phosphor layer constituting a fluorescent surface of a picture tube or the like.
SOLUTION: A silicon oxide compound having a spherical or almost spherical particle shape is used as a base body and a mixture of zinc or a zinc compound and manganese or a manganese compound with the base body is heated to be fired to obtain almost spherical phosphor. The picture tube having high light emitting intensity is produced by applying the resultant spherical phosphor on the fluorescent surface of the picture tube.

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